Contents

Volume 107 1989

Foe, V. E. Mitotic domains reveal early commitment of cells in <i>Drosophila</i> embryos	-1	Eccleston, P. A., Bannerman, P. G. C., Pleasure, D. E., Winter, J., Mirsky, R. and Jessen, K. R. Control of peripheral glial cell proliferation:	
Stirpe, N. S. and Goetinck, P. F. Gene regulation during cartilage differentiation: temporal and spatial expression of link protein		enteric neurons exert an inhibitory influence on Schwann cell and enteric glial cell DNA synthesis in culture	107
and cartilage matrix protein in the developing limb	23	Heath, J. K., Paterno, G. D., Lindon, A. C. and Edwards, D. R. Expression of multiple heparin-binding growth	
Callaini, G. Microtubule distribution reveals superficial metameric patterns in the early <i>Drosophila</i>		factor species by murine embryonal carcinoma and embryonic stem cells	113
embryo	35	Cuthbertson, R. A., Beck, F., Senior, P. V., Haralambidis, J., Penschow, J. D. and Coghlan, J. P.	
Messenger, N. J. and Warner, A. E. The appearance of neural and glial cell markers during early development of the nervous system		Insulin-like growth factor II may play a local role in the regulation of ocular size	123
in the amphibian embryo Tam, P. P. L.	43	Gaunt, S. J., Krumlauf, R. and Duboule, D. Mouse homeo-genes within a subfamily, Hox-1.4, -2.6 and -5.1, display similar anteroposterior	
Regionalisation of the mouse embryonic ectoderm: allocation of prospective ectodermal tissues during gastrulation	55	domains of expression in the embryo, but show stage- and tissue-dependent differences in their regulation	131
Saló, E. and Baguñà, J. Regeneration and pattern formation in		Carr, J. N. and Taghert, P. H. Pair-rule expression of a cell surface molecule during gastrulation of the moth embryo	143
planarians. II. Local origin and role of cell movements in blastema formation	69	Srinivas, U. K. and Henderson, E. J. Biochemical differentiation in a mutant of	
Baguñà, J., Saló, E. and Auladell, C. Regeneration and pattern formation in		Dictyostelium discoideum defective in cyclic AMP chemotaxis and in intercellular cohesion	153
planarians. III. Evidence that neoblasts are totipotent stem cells and the source of blastema cells	77	Sapienza, C., Paquette, J., Tran, T. H. and Peterson, A. Epigenetic and genetic factors affect transgene methylation imprinting	165
Crandall, I. E. and Newell, P. C. Changes in cell surface glycoproteins during Dictyostelium development analysed using		ESSAY IN DEVELOPMENT Del Pino, E. M.	
monoclonal antibodies	87	Modifications of oogenesis and development in marsupial frogs	169
Taketo-Hosotani, T., Nishioka, Y., Nagamine, C. M., Villalpando, I. and Merchant-Larios, H. Development and fertility of ovaries in the		CONTRIBUTED PAPERS Grossniklaus, U., Bellen, H. J., Wilson, C. and Gehring, W. J. P-element-mediated enhancer detection applied	
B6.Y ^{DOM} sex-reversed female mouse	95	to the study of oogenesis in <i>Drosophila</i>	189

Patel, N. H., Kornberg, T. B. and Goodman, C. S. Expression of <i>engrailed</i> during segmentation in grasshopper and crayfish	201	Oppenheim, R. W., Bursztajn, S. and Prevette, D. Cell death of motoneurons in the chick embryo spinal cord. XI. Acetylcholine receptors and synaptogenesis in skeletal muscle following the reduction of motoneuron death by neuromuscular	
Kuopio, T., Tapanainen, J., Pelliniemi, L. J. and Huhtaniemi, I.			331
Developmental stages of fetal-type Leydig cells in	213	Galliot, B., Dollé, P., Vigneron, M., Featherstone, M. S., Baron, A. and Duboule, D. The mouse Hox-1.4 gene: primary structure,	
McAvoy, J. W. and Chamberlain, C. G. Fibroblast growth factor (FGF) induces different responses in lens epithelial cells depending on its		evidence for promoter-activity and expression during development	343
	221	Rudnicki, M. A., Reuhl, K. R. and McBurney, M. W.	
Cooke, J. Mesoderm-inducing factors and Spemann's organiser phenomenon in amphibian development.	229	Cell lines with developmental potential restricted to mesodermal lineages isolated from differentiating cultures of pluripotential P19 embryonal carcinoma cells	361
Duxson, M. J. and Usson, Y. Cellular insertion of primary and secondary		•	301
	243	Sutcliffe, M. J. and Burgoyne, P. S. Analysis of the testes of H-Y negative XOSxr ^b	
Fellah, J. S., Vaulot, D., Tournefier, A. and Charlemagne, J. Ontogeny of immunoglobulin expression in the		mice suggests that the spermatogenesis gene (Spy) acts during the differentiation of the A spermatogonia	373
Mexican axolotl	253	Cohen, J., Nurcombe, V., Jeffrey, P. and Edgar, D.	
Vandenbunder, B., Pardanaud, L., Jaffredo, T., Mirabel, M. A. and Stehelin, D. Complementary patterns of expression of <i>c-ets 1</i> , <i>c-myb</i> and <i>c-myc</i> in the blood-forming system of		Developmental loss of functional laminin receptors on retinal ganglion cells is regulated by their target tissue, the optic tectum	381
	265	Hartenstein, V. and Posakony, J. W.	
Mitrani, E. and Shimoni, Y. Retinoic acid inhibits growth in agarose of early		Development of adult sensilla on the wing and notum of <i>Drosophila melanogaster</i>	389
chick embryonic cells and may be involved in regulation of axis formation	275	Tsunoda, Y., Tokunaga, T., Imai, H. and Uchida, T.	
Halfter, W. Antisera to basal lamina and glial endfeet disturb		Nuclear transplantation of male primordial germ cells in the mouse	407
the normal extension of axons on retina and pigment epithelium basal laminae	281	Fontaine-Pérus, J. C., Chanconie, M., Le Douarin, N. M., Gershon, M. D.	
Stephens, L., Kitajima, T. and Wilt, F.		and Rothman, T. P.	
Autonomous expression of tissue-specific genes in dissociated sea urchin embryos	299	Mitogenic effect of muscle on the neuroepithelium of the developing spinal cord	413
Stern, C. D., Norris, W. E., Bronner-Fraser, M., Carlson, G. J., Faissner, R. J. and Schachner, M. J1/tenascin-related molecules are not responsible for the segmented pattern of neural crest cells or		Mitani, S. Retarded gastrulation and altered subsequent development of neural tissues in heparin-injected <i>Xenopus</i> embryos	423
motor axons in the chick embryo	309	Birk, D. E., Southern, J. F., Zycband, E. I.,	
Sánchez-Herrero, E. and Akam, M. Spatially ordered transcription of regulatory DNA in the bithorax complex of <i>Drosophila</i>	321	Fallon, J. T. and Trelstad, R. L. Collagen fibril bundles: a branching assembly unit in tendon morphogenesis	437

Ohinata, H., Tochinai, S. and Katagiri, C. Ontogeny and tissue distribution of leukocyte-common antigen bearing cells during early development of <i>Xenopus laevis</i>	445	Hardy, K., Handyside, A. H. and Winston, R. M. L. The human blastocyst: cell number, death and allocation during late preimplantation development in vitro	597
Steel, K. P. and Barkway, C. Another role for melanocytes: their importance for normal stria vascularis development in the mammalian inner ear	453	Inouye, K. Control of cell type proportions by a secreted	605
West, J. D. and Flockhart, J. H. Genetic differences in glucose phosphate isomerase activity among mouse embryos	465	De, S. K., McMaster, M. T., Dey, S. K. and Andrews, G. K. Cell-specific metallothionein gene expression in mouse decidua and placentae	611
Moskalewski, S. and Malejczyk, J. Bone formation following intrarenal transplantation of isolated murine chondrocytes: chondrocyte – bone cell transdifferentiation	473	Kopczynski, C. C. and Muskavitch, M. A. T. Complex spatio-temporal accumulation of alternative transcripts from the neurogenic gene <i>Delta</i> during <i>Drosophila</i> embryogenesis	623
McConnell, J. and Lee, M. Presence of cdc2 ⁺ -like proteins in the preimplantation mouse embryo	481	Brown, N. A., Hoyle, C. I., McCarthy, A. and Wolpert, L.	020
Hooper, K. L., Parkhurst, S. M. and Ish-Horowicz, D. Spatial control of <i>hairy</i> protein expression during		The development of asymmetry: the sidedness of drug-induced limb abnormalities is reversed in situs inversus mice	637
embryogenesis Nothiger, R., Jonglez, M., Leuthold, M., Meier- Gerschwiler, P. and Weber, T. Sex determination in the germ line of <i>Drosophila</i>	489	McMahon, J. A. and McMahon, A. P. Nucleotide sequence, chromosomal localization and developmental expression of the mouse <i>int-1</i> -related gene	643
depends on genetic signals and inductive somatic factors Storey, K. G. Cell lineage and pattern formation in the earthworm embryo	505 519	Gaul, U. and Jäckle, H. Analysis of maternal effect mutant combinations elucidates regulation and function of the overlap of hunchback and Krüppel gene expression in the Drosophila blastoderm embryo	651
Storey, K. G. The effects of ectoteloblast ablation in the earthworm embryo	533	Vavra, S. H. and Carroll, S. B. The zygotic control of <i>Drosophila</i> pair-rule gene expression. I. A search for new pair-rule regulatory loci	663
Govind, C. K. and Pearce, J. Delayed determination of claw laterality in lobsters following loss of target	547	Carroll, S. B. and Vavra, S. H. The zygotic control of <i>Drosophila</i> pair-rule gene expression. II. Spatial repression by gap and pair-	
Easter, S. S. and Taylor, J. S. H. The development of the <i>Xenopus</i> retinofugal pathway: optic fibers join a pre-existing tract	553	rule gene products ESSAY IN DEVELOPMENT Smith, L. D.	673
Busturia, A., Casanova, J., Sánchez-Herrero, E., González, R. and Morata, G. Genetic structure of the <i>abd-A</i> gene of	575	The induction of oocyte maturation: transmembrane signaling events and regulation of the cell cycle	685
Schaart, G., Viebahn, C., Langmann, W. and Ramaekers, F. Desmin and titin expression in early postimplantation mouse embryos	585	CONTRIBUTED PAPERS Sharpe, C. R., Pluck, A. and Gurdon, J. B. XIF3, a <i>Xenopus</i> peripherin gene, requires an inductive signal for enhanced expression in anterior neural tissue	701

Simcox, A. A., Roberts, I. J. H., Hersperger, E., Gribbin, M. C., Shearn, A. and Whittle, J. R. S. Imaginal discs can be removed from cultured embryos mutant for the segment-polarity genes engrailed, naked and patched but not from		Mohun, T. J., Garrett, N. and Taylor, M. V. Temporal and tissue-specific expression of the proto-oncogene <i>c-fos</i> during development in <i>Xenopus laevis</i>	835
wingless	715	Lawrence, P. A. and Johnston, P.	
Basler, K. and Hafen, E. Dynamics of <i>Drosophila</i> eye development and temporal requirements of <i>sevenless</i> expression	723	Analysis of function of the pair-rule genes hairy, even-skipped and fushi tarazu in mosaic Drosophila embryos	847
Kobayashi, S. and Okada, M.		Tix, S., Bate, M. and Technau, G. M.	
Restoration of pole-cell-forming ability to u.v irradiated <i>Drosophila</i> embryos by injection of mitochondrial IrRNA	733	Pre-existing neuronal pathways in the leg imaginal discs of <i>Drosophila</i>	855
Down M. I. Hann V. and Hamir A. I.		Eichele, G.	
Duxson, M. J., Usson, Y. and Harris, A. J. The origin of secondary myotubes in mammalian skeletal muscles: ultrastructural studies	743	Retinoic acid induces a pattern of digits in anterior half wing buds that lack the zone of polarizing activity	863
Harris, A. J., Fitzsimons, R. B.			
and McEwan, J. C. Neural control of the sequence of expression of myosin heavy chain isoforms in foetal mammalian muscles	751	Lorenz, L. J., Hall, J. C. and Rosbash, M. Expression of a <i>Drosophila</i> mRNA is under circadian clock control during pupation	869
		Boocock, C. A.	
Harris, A. J., Duxson, M. J., Fitzsimons, R. B. and Rieger, F. Myonuclear birthdates distinguish the origins of		Unidirectional displacement of cells in fibrillar matrices	881
primary and secondary myotubes in embryonic mammalian skeletal muscles	771	Wilcox, M., DiAntonio, A. and Leptin, M. The function of PS integrins in <i>Drosophila</i> wing	
Jones, E. A. and Woodland, H. R. Spatial aspects of neural induction in <i>Xenopus</i>		morphogenesis	891
laevis	785	Kloc, M., Miller, M., Carrasco, A. E.,	
Y C Y X X X X X X X X X X X X X X X X		Eastman, E. and Etkin, L.	
Van Straaten, H. W. M., Hekking, J. W. M., Beursgens, J. P. W. M., Terwindt-		The maternal store of the xlgv7 mRNA in full-	
Rouwenhorst, E. and Drukker, J. Effect of the notochord on proliferation and		grown oocytes is not required for normal development in <i>Xenopus</i>	899
differentiation in the neural tube of the chick			
embryo	793	Levi, G. and Teichberg, V. I.	
Richardson, M. K., Hornbruch, A.		Patterns of expression of a 15K β -D-galactosidase-specific lectin during early	
and Wolpert, L.		development of the avian embryo	909
Pigment pattern expression in the plumage of the			
quail embryo and the quail-chick chimaera	805	Kam, E. and Pitts, J. D.	
Barton, P. J. R., Harris, A. J.		Tissue-specific regulation of junctional	
and Buckingham, M. E.		communication in the skin of mouse fetuses homozygous for the repeated epilation (Er)	
Myosin light chain gene expression in developing		mutation	923
and denervated fetal muscle in the mouse	819		
Cameron-Curry, P., Dulac, C. and Le		Bagnall, K. M., Higgins, S. J. and Sanders, E. J.	
Douarin, N. M.		The contribution made by cells from a single	
Expression of the SMP antigen by oligodendrocytes in the developing avian central		somite to tissues within a body segment and assessment of their integration with similar cells	
nervous system	825	from adjacent segments	931

Dooley, T. P., Miranda, M., Jones, N. C.

Index of Authors and Titles

957

and DePamphilis, M. L.

Transactivation of the adenovirus EIIa promoter in the absence of adenovirus E1a protein is restricted to mouse oocytes and preimplantation embryos

945